CLIPPEDIMAGE= JP02000330118A
PAT-NO: JP02000330118A
DOCUMENT-IDENTIFIER: JP 2000330118 A
TITLE: MULTI-DOMAIN LIQUID CRYSTAL DISPLAY DEVICE WITH BUMP STRUCTURAL PART

PUBN-DATE: November 30, 2000

INVENTOR-INFORMATION:

NAME	COUNTRY
RYU, KOTATSU	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
IND TECHNOL RES INST	N/A

APPL-NO: JP11136243
APPL-DATE: May 17, 1999

INT-CL (IPC): G02F001/1337; C08G073/10 ; G02F001/1333 ; G02F001/13363

ABSTRACT:
PROBLEM TO BE SOLVED: To provide an LCD with a wide visual angle.

SOLUTION: The LCD is equipped with a pair of polarizing plates comprising a polarizer 100 and an analyzer 102. A pair of light transmissible substrates 104, 108 is formed between the pair of the polarizing plates. A compensator 114 is formed on the analyzer 102. A bump structural part 110 is formed on the upper side of the substrate. Liquid crystal molecules on the specified bump structural part are given a specified leaning direction so as to be imparted a larger pretilt angle. On at least one out of the pair of substrates the bump structural part is formed so as to impart the pretilt

angle to the liquid
crystal molecules filled between the pair of glass
substrate. In this case,
inclined surfaces are given to the bump structural part
so as to make both
edges of the bump structural part have heights
different from each other.
Alignment layers are formed on the pair of glass
substrates and the bump
structural part.

CLIPPEDIMAGE= JP02000206535A
PAT-NO: JP02000206535A
DOCUMENT-IDENTIFIER: JP 2000206535 A
TITLE: TRANSMISSIVE HYBRID ALIGNED LIQUID CRYSTAL DISPLAY DEVICE

PUBN-DATE: July 28, 2000

INVENTOR-INFORMATION:

NAME	COUNTRY
YAMAGUCHI, HIDEMASA	N/A
URABE, TETSUO	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SONY CORP	N/A

APPL-NO: JP11005593
APPL-DATE: January 12, 1999

INT-CL_(IPC): G02F001/1337; G02F001/13363

ABSTRACT:
PROBLEM TO BE SOLVED: To provide a hybrid aligned liquid crystal display device with high response speed of a liquid crystal layer.

SOLUTION: The transmissive hybrid aligned liquid crystal display device comprises a liquid crystal layer 39 which is arranged between a first and a second transparent substrate 11a, 11b placed opposite to each other, of which the liquid crystal molecules on the first transparent substrate 11a side are almost vertically aligned with respect to the surface of the first transparent substrate 11a and also of which the liquid crystal molecules on the second transparent substrate 11b side are aligned almost in

parallel with the surface
of the second transparent substrate 11b and a pair of
electrodes 12a, 12b which
applies a driving voltage to the liquid crystal layer
39. In this case, the
minimum driving voltage is set to be >1 V.